


The present application is believed to be in condition for a full and thorough examination on the merits. An early and favorable consideration of the present application is hereby respectfully requested.

Respectfully submitted,

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Serial No: 203907US6PCT

Amendment Filed on:

IN THE CLAIMS

Please amend the claims as follows:

--1. (Amended) A rotating electric machine comprising a stator [(2)], including a core of a magnetizable material and a winding [(8)], and a rotor [(1)], which, in relation to the stator, rotates with one degree of freedom, which rotor [(1)] is separated from the stator [(2)] by an air gap, characterized in that the stator core [(2)] comprises a rounded cavity [(9)] surrounding the rotor [(1)] at all sides.

2. (Amended) A rotating electric machine according to claim 1, characterized in that the cavity [(9)] is defined by a solid of revolution which diameter at least at the end parts is decreasing.

3. (Amended) A rotating electric machine according to claim 1 [or 2], characterized in that the cavity [(9)] is defined by a spheroid.

4. (Amended) A rotating electric machine according to claim 1 [or 2], characterized in that the cavity [(9)] is defined by a sphere.

5. (Amended) A rotating electric machine according to [any of claims 1 to 4] claim 1, characterized in that the air gap, in a direction normal to the limiting surface of the cavity, has a uniform thickness.

6. (Amended) Use of a rotating electric machine according to [any of claims 1 to 5] claim 1 for connection to a power network.

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7. (Amended) Use of a rotating electric machine according to [any of claims 1 to 5] claim 1 as a generator in a conveyance powered by an internal-combustion engine.

8. (Amended) Use of a rotating electric machine according to [any of claims 1 to 5] claim 1 as a prime mover for a conveyance.

9. (Amended) Use of a rotating electric machine according to [any of claims 1 to 5] claim 1 as a prime mover in an electrical domestic appliance.

10. (Amended) A method for manufacturing a rotating electric machine comprising a stator [(2)], which is provided with a core of a magnetizable material and a winding [(8)], and a rotor [(1)] which, in relation to the stator, is adapted to rotate with one degree of freedom, which rotor [(1)] is separated from the stator [(2)] by an air gap, characterized in arranging a rounded cavity [(9)] in the stator [(2)] and having the cavity to surround the rotor [(1)] at all sides.

11. (Amended) A method according to claim 10, characterized in forming the cavity [(9)] to adapt the shape of a mirror symmetrical solid of revolution which diameter at least at the end parts is decreasing.

12. (Amended) A method according to claim 10, characterized in forming the cavity [(9)] to be limited by a spheroid.

13. (Amended) A method according to claim 10, characterized in forming the cavity [(9)] to be limited by a sphere.

14. (Amended) A method for manufacturing a rotating electric machine comprising a stator [(2)] with a core of a magnetizable material and a winding [(8)], and a rotor [(1)] which, in relation to the stator, rotates with one degree of freedom, characterized in the steps of;

- forming the rotor [(1)] to be limited by essentially a spheroid,
- providing a stator core [(2)] containing a rounded cavity [(9)] to surround the rotor, and
- providing the stator core [(2)] a winding [(8)] to form a complete stator.

15. (Amended) A rotating electric machine comprising a stator [(2)], including a core of a magnetizable material and a winding [(8)], and a rotor [(1)] which, in relation to the stator, rotates with one degree of freedom around an axle, characterized in that the stator core [(2)] comprises a rounded cavity [(9)] surrounding the rotor [(1)] at all sides, that when powered a balanced three-dimensionally directed magnetic field operates between the stator [(2)] and the rotor [(1)], and that the magnetic field comprises magnetic vectors, each having an active component parallel to the rotor axle.

17. (Amended) A rotating electric machine comprising a stator [(2)], including a core of a magnetizable material and a winding [(8)], and a rotor [(1)] which, in relation to the stator, rotates with one degree of freedom, characterized in that the stator core [(2)] comprises a rounded cavity [(9)] surrounding the rotor [(1)] at all sides and that the winding [(8)] comprises a cable [(5)].

18. (Amended) A rotating electric machine according to claim 17, characterized in that the cable [(5)] is a high-voltage cable.--